

Michael Roark

Machine Learning Engineer

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SKILLS

Languages: Python, C++, Bash, Typescript, SQL

Tools & Frameworks: Git, PostgreSQL, Docker, Terraform, React, Next.js, Fast-API, AWS

Domains: Machine Learning, Optimization, Machine Vision, NLP, Deep Learning

EXPERIENCE

Self Employed | Full Stack M.L. Engineer SF, CA 2021 - 2024
ML Eng, Ops, Research, and Full Stack consulting. [Python, et al.]

- Production architecture design and prototyping for ML pipelines.
- Design, implementation, and evaluation of machine learning models.
- Design and analysis of NLP clustering experiments.

Amotions Inc | Founding Engineer | Machine Learning & Research Lead SF, CA 2024
Enterprise coaching focused conversational agent. [Python, Fast-API, Typescript, Next, React, AWS]

- Full stack rapid prototyping and productionization of conversational AI agents.
- Implemented intention discovery, content guardrails.
- Productionized prototypes and authored deployment pipelines.

Pallete AI | Founding Engineer SF, CA 2023
Pallete AI built a machine vision model for virtual try-on of fashion garments. [Python, Pytorch, GCP]

- Implementation and training of custom U-net machine vision model.

Ebay Inc. | Software Engineer II | Ebay Valet Initiative SF, CA 2016 - 2017
Ebay Valet is a white glove consignment service. [Golang, NodeJS, Java, Mongo DB, React, Kubernetes]

- Enabled v1 release of Ebay Valet warehousing tools by developing Auth & Auth security solution.
- Served as team Security Champion ensuring project adherence to E-Commerce & security best practices.
- Full-stack contributor to warehousing tools.

Mocana Corp. | Member of Technical Staff | Mobile App Protection SF, CA 2013 - 2015
Mocana's MAP suite offers security solutions for mobile enterprise apps. [iOS/Obj-C, C, C++, Java, Rails]

- Met key client needs by developing cross-tab Javascript support in flagship secure iOS Browser.
- Full stack contributor to MAP product suite.

Andover Consulting Group L.L.C. | Lead Dev. | In-House Software SF, CA 2011 - 2013
Andover ran multiple online store fronts for enterprise hardware. [PHP, MySQL, jQuery, Bash, Apache]

- Developed auto-arbitrage framework for managing inventory pricing.

EDUCATION

B.A./M.A. Mathematics | CS, Stats, & Machine Learning | San Francisco State University 2019 / 2022

- Thesis: *Formal Verification of Neural Networks via Optimization Methods*